



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: M.J. Corey et al.

Attorney Docket No.: MICC118884P 1

Application No.: 10/071,350

Group Art Unit: 1627

Filed: February 8, 2002

Examiner: R.J. Gitomer

Title: METHODS AND COMPOSITIONS FOR COUPLED LUMINESCENT ASSAYS

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Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

1. X Copies of the listed patents, publications, and other information are enclosed for the Examiner's use.
2. X Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.
3. X The Commissioner is hereby authorized to charge any fees which may be required to Deposit Account No. 03-1740. This authorization also hereby includes a request for any extensions of time of the appropriate length required upon the filing of any reply during the entire prosecution of this application. A copy of this document is enclosed.

Respectfully submitted,

CHRISTENSEN O'CONNOR
JOHNSON KINDNESS^{PLLC}


Dennis K. Shelton

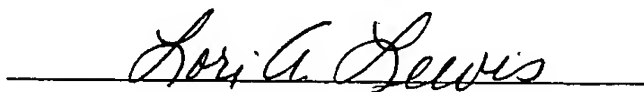
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Applicants: M.J. Corey et al. Attorney Docket No.: MICC118884

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Title: METHODS AND COMPOSITIONS FOR COUPLED
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U.S. PATENT DOCUMENTS

None.

FOREIGN PATENT DOCUMENTS

*Examiner Cite Initial No.	Document No.	Kind Code	Publication Date (mm/dd/yyyy)	Country	English	
					Abstract Provided	Translation Provided
_____ F1	WO 98/28437	A1	07/02/1998	WIPO		
_____ F2	11-290096		10/26/1999	Japan	X	
_____ F3	WO 00/75167	A2	12/14/2000	WIPO		

OTHER INFORMATION

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Cite No.	
_____	O1	Bradbury, D.A., et al., "Measurement of the ADP:ATP Ratio in Human Leukaemic Cell Lines Can Be Used as an Indicator of Cell Viability, Necrosis and Apoptosis," <i>Journal of Immunological Methods</i> 240:79-92, 2000.
_____	O2	Corey, M.J., et al., "A Very Sensitive Coupled Luminescent Assay for Cytotoxicity and Complement-Mediated Lysis," <i>Journal of Immunological Methods</i> 207:43-51, 1997.
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- 04 Kasatori, N., et al., "Cytotoxicity Test Based on Luminescent Assay of Alkaline Phosphatase Released From Target Cells," *Rinsho Byori* 42(10):1050-1054, October 1994, retrieved from *NCBI.gov*, <http://www.ncbi.nlm.nih.gov:80/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=7996714&dopt=Abstract> [retrieved August 2, 2002].
- 05 Mahuren, J.D., et al., "Microassay of Phosphate Provides a General Method for Measuring the Activity of Phosphatases Using Physiological, Nonchromogenic Substrates Such as Lysophosphatidic Acid, *Analytical Biochemistry* 298:241-245, 2001.
- 06 Miska, W., and R. Geiger, "A New Type of Ultrasensitive Bioluminogenic Enzyme Substrates," *Biol. Chem.* 369:407-411, May 1988.
- 07 Mountfort, D.O., et al., "Evaluation of the Fluorometric Protein Phosphatase Inhibition Assay in the Determination of Okadaic Acid in Mussels," *Toxicon* 37:909-922, 1999.
- 08 Olesen, C.E.M., et al., "Novel Methods for Chemiluminescent Detection of Reporter Enzymes," *Methods in Enzymology* 326:175-192, 2000.
- 09 Sasamoto, H., et al., "Chemiluminescent Assay of Alkaline Phosphatase Using Phenacyl Phosphate," *Analytica Chimica Acta* 306:161-166, 1995.
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- O11 Ximenes, V.F., et al., "Facile Chemiluminescent Method for Alkaline Phosphatase Determination," *Analytica Chimica Acta* 402:99-104, 1999.

Examiner

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Applicants: Camilla A. Santos, Jules S. Jacob, Benjamin A. Hertzog, Gerardo P. Carino,
and Edith Mathiowitz

Serial No.: 10/146,184

Art Unit: 1616

Filed: May 15, 2002

Examiner: Not Yet Assigned

For: *METHODS AND COMPOSITIONS FOR ENHANCING THE BIOADHESIVE
PROPERTIES OF POLYMERS USING ORGANIC EXCIPIENTS*

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including five (5) pages of Form PTO-1449. All of the documents cited below were cited by or submitted to the Patent Office in Application Serial No. 09/729,529, filed December 4, 2000, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.



U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
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<u>Number</u>	<u>Publication Date</u>	<u>Patentee</u>	<u>Country</u>
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CHICKERING & MATHIOWITZ, "Bioadhesive microspheres: I. A novel electrobalance-based method to study adhesive interactions between individual microspheres and intestinal mucosa," *J. Control. Release* 34:251-62 (1995).

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U.S.S.N.: 10/146,184

Filed: May 15, 2002

INFORMATION DISCLOSURE STATEMENT



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SMART, et al., "An in vitro investigation of mucosa-adhesive materials for use in controlled drug delivery," *J. Pharm. & Pharmacol.*, 36:295-99 (1984).

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U.S.S.N.: 10/146,184
Filed: May 15, 2002
INFORMATION DISCLOSURE STATEMENT



Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst
Reg. No. 31,284

Dated: September 13, 2002

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INFORMATION DISCLOSURE STATEMENT



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/146,184
		Filing Date	May 15, 2002
		First Named Inventor	Camila A. Santos
		Group Art Unit	1616
		Examiner Name	
Sheet 1 of 5	Attorney Docket Number	BU 107 DIV CON CIP	



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		2,675,619		Cone	04-20-1954	
		2,677,700		Jackson, et al.	05-04-1954	
		2,979,578		Curtis	04-11-1961	
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		3,535,307		Moss, et al.	10-20-1970	
		3,829,506		Schmolka, et al.	08-13-1974	
		4,757,128		Domb, et al.	07-12-1988	
		4,861,627		Mathiowitz, et al.	08-29-1989	
		4,898,734		Mathiowitz, et al.	02-06-1990	
		4,933,431		Domb, et al.	06-12-1990	
		4,938,763		Dunn, et al.	07-03-1990	
		4,976,968		Steiner	12-11-1990	
		4,997,904		Domb	03-05-1991	
		5,019,400		Gombotz, et al.	05-28-1991	
		5,173,298		Meadows	12-22-1992	

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		Office. ³	Number ⁴	Kind Code ⁵ (if known)				
		EP	0 333 523	A2	UAB Research Foundation	09-20-1989		
		WO	91/06286		Enzytech, Inc.	05-16-1991		
		WO	91/06287		Enzytech, Inc.	05-16-1991		
		WO	92/11871		Allergan, Inc.	07-23-1992		
		WO	93/21906		Brown University Research Foundation	11-11-1993		

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Application Number	10/146,184
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First Named Inventor	Camila A. Santos
Group Art Unit	1616
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OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cit and/or country where published	7 ²
		BECK, et al., "A new long-acting injectable microcapsule system for the administration of progesterone," <i>Fertil. & Steril.</i> , 31(5):545-55 (1979).	
		BENITA, et al., "Characterization of Drug-Loaded Poly(D,Lactide) Microspheres," <i>J. Pharm. Sci.</i> , 73(12):1721-24 (1984).	
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		HOROWITZ, M., "Mucopolysaccharides and glycoproteins of the alimentary tract," <i>Handbook of Physiology</i> (C.F. Code, ed.), pp. 1063-85 (American Physiological Society 1967).	
		LABAT-ROBERT & DECAEUS, "Glycoprotéines du mucus gastrique: structure, fonctions et pathologie," <i>Pathologie Biologie</i> , 24:241 (Paris 1979).	

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Application Number

10/146,184

Filing Date

May 15, 2002

First Named Inventor

Camila A. Santos

Group Art Unit

1616

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OTHER ART -- NON PATENT LITERATURE DOCUMENTS

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		LABHASETWAR, et al., "Sotalol Controlled-release systems for arrhythmias: <i>In vitro</i> characterization, <i>in vivo</i> drug disposition, and electrophysiologic effects," <i>J. Pharm. Sci.</i> , <u>83</u> (2):156-164 (1994).	
		LEHR, et al., "Intestinal transit of bioadhesive microspheres in an <i>in situ</i> loop in the rat - a comparative study with copolymers and blends based on poly(acrylic acid)," <i>J. Controlled Rel.</i> , <u>13</u> :51-62 (1990).	
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		MIKOS, et al., "Interaction of Polymer Microspheres with Mucin Gels as a Means of Characterizing Polymer Retention on Mucus," <i>J. Colloid & Interface Sci.</i> , <u>143</u> (2):366-73 (1991).	
		PARK, et al., "Alternative Approaches to Oral Controlled Drug Delivery: Bioadhesives and In-Situ Systems", <i>Recent Advances in Drug Delivery Systems</i> (Anderson & Kim, eds.) pp.163-83 (Plenum Press 1983?).	
		SMART, et al., "An <i>in vitro</i> investigation of mucosa-adhesive materials for use in controlled drug delivery," <i>J. Pharm. & Pharmacol.</i> , <u>36</u> :295-99 (1984).	
		SPIRO, R., "Glycoproteins," <i>Annual Review of Biochemistry</i> , 39:599-638 (Snell, ed. 1970).	

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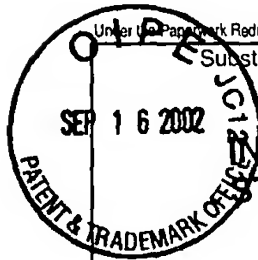
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INFORMATION DISCLOSURE
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First Named Inventor	Camila A. Santos
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Sheet 5 of 5

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Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cit and/or country where published	T ²
		TUTWILER, et al., "A Pharmacologic Profile of McN-3495 [N-(1-methyl-2-pyrrolidinylidene)-N-phenyl-1-pyrrolidinecarboximidamide], a New, Orally Effective Hypoglycemic Agent," <i>Diabetes</i> , 27(8):856-67 (1978).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/146,184
Filing Date	May 15, 2002
First Named Inventor	Camila A. Santos
Group Art Unit	1616
Examiner Name	
Attorney Docket Number	BU 107 DIV CON CIP

Sheet	2	of	5
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